

## **Argo National Data Management Report of France**

September 1<sup>st</sup> 2002 - October 27<sup>th</sup> 2003

### 1. Status of the DAC

- Data acquired from floats  
September 2002 to October 2003  
Floats deployed 106  
Profiles controlled 6687  
Floats reporting 176

October 1999 to October 2003

Floats deployed 286  
Profiles controlled 10965  
Inactive floats 110

Coriolis data center is the French data assembly center (DAC). We process data from Provor and Apex floats. These floats are deployed by national programs from 7 countries and 11 scientific projects.

See figures 1 & 2.

| Country        | Active floats | Total floats |
|----------------|---------------|--------------|
| China          | 3             | 8            |
| Denmark        | 2             | 5            |
| European union | 65            | 82           |
| France         | 51            | 117          |
| Germany        | 38            | 53           |
| India          | 11            | 15           |
| Spain          | 6             | 6            |
| Total          | 176           | 286          |

| Scientific project       | Active floats | Total floats |
|--------------------------|---------------|--------------|
| Argo-Greenland           | 1             | 5            |
| Argo-España              | 6             | 6            |
| BSH (Germany)            | 22            | 22           |
| Coriolis (Shom, Ifremer) | 35            | 98           |
| Flostral                 | 13            | 15           |
| Gyroscope                | 65            | 82           |
| Indian Argo project      | 11            | 15           |
| China Argo project       | 3             | 8            |
| MFSTEP                   | 4             | 4            |
| SFB460 (Germany)         | 9             | 13           |
| Wecon (Germany)          | 7             | 18           |
| Total                    | 176           | 286          |

- Data issued to GTS

All data processed by Coriolis are distributed on the GTS by way of Meteo-France. This operation is performed by an operator. Therefore, during week-ends float data are not distributed on GTS within 24 hours of measurement. An automated distribution will solve that problem from November 2003.

- Data issued to GDACs after real-time QC

All meta-data, profiles and trajectory data are sent to Coriolis and US-Godae GDACs. This distribution is automated.

Technical data are not yet issued to GDACs.

- Data issued for delayed QC

All profile files are sent to PIs for delayed QC. Most of the Atlantic data handled by Coriolis are checked by the European project Gyroscope.

- Delayed data sent to GDACs

Scientific projects did not yet return delayed mode data to Coriolis data center. Gyroscope will probably produce delayed mode data by the end of 2003.

- Web pages

The web site of the French DAC is available at :

<http://www.coriolis.eu.org/cdc/>

It provides :

- Individual float description and status (meta-data, geographic map, graphics : section, overlayed, waterfall, t/s charts)
- Individual float data (profiles, trajectories)
- FTP access ;
- Data selection tool ;
- Global geographic maps ;
- Weekly North Atlantic analyses (combines Argo data and other measurements from xbt, ctd, moorings, buoys) ;
- Some animations.

## 2. Delayed Mode QC

Annie Wong et al method will not be applied to produce the delayed mode data for Gyroscope project. A method developed by Lars Boehm from IFM-Kiel should be applied by the end of 2003 .

### 3. GDAC functions

Coriolis data center operates a Global DAC since 2001.

National centres reporting to Coriolis GDAC

- MEDS (Canada)
- JMA (Japan)
- Coriolis (France)
- BODC (UK)
- CSIRO (Australia)

| DAC      | Stations | Platforms | Active platforms |
|----------|----------|-----------|------------------|
| aoml     | 19599    | 558       | 392              |
| bodc     | 3822     | 84        | 49               |
| coriolis | 10955    | 286       | 176              |
| csiro    | 1618     | 30        | 20               |
| jma      | 11103    | 255       | 156              |
| meds     | 3741     | 92        | 76               |
| Total    | 50838    | 1305      | 869              |

See figures 3, 4 & 5.

- Operations of the ftp server  
GDAC FTP data are available from :  
<ftp://ftp.ifremer.fr/ifremer/argo/>

Documentation on the GDAC FTP site is available from :  
[http://www.coriolis.eu.org/coriolis/cdc/argo\\_ftp\\_site.htm](http://www.coriolis.eu.org/coriolis/cdc/argo_ftp_site.htm)

- Operations of the www server  
An individual description of all Argo floats is available at  
<http://www.coriolis.eu.org/coriolis/cdc/floats/cdcFloats.asp>

A global map of Argo floats is available at  
<http://www.coriolis.eu.org/coriolis/cdc/floats/cdcFloatsMaps.asp>

A data selection tool for Argo is available at  
<http://www.coriolis.eu.org/coriolis/cdc/DataSelection/cdcDataSelections.asp>

- Data synchronization  
Every day, Coriolis-data center checks all profile files from US-Godae. All missing or obsolete profiles are collected from US-Godae.  
The synchronization of meta-data, trajectory and technical data is not yet performed. These additional synchronizations should start by the end of 2003.

- Use statistics

The following table displays the number of files downloaded from the GDAC ftp site. The figure of January 2003 is not complete, most of the statistics were not recorded this month.

| month-year | nb. of downloaded files |
|------------|-------------------------|
| sept-02    | 211381                  |
| oct-02     | 131223                  |
| nov-02     | 73469                   |
| déc-02     | 87942                   |
| janv-03    | 4182                    |
| févr-03    | 183146                  |
| mars-03    | 298440                  |
| avr-03     | 276265                  |
| mai-03     | 675199                  |
| juin-03    | 380078                  |
| juil-03    | 464836                  |
| août-03    | 291588                  |
| sept-03    | 186915                  |

See figure 6.

#### 4. Regional Centre Functions

The regional center for North Atlantic is not yet operational.

Figure 1 : countries of floats managed by Coriolis DAC, 28 October, 2003

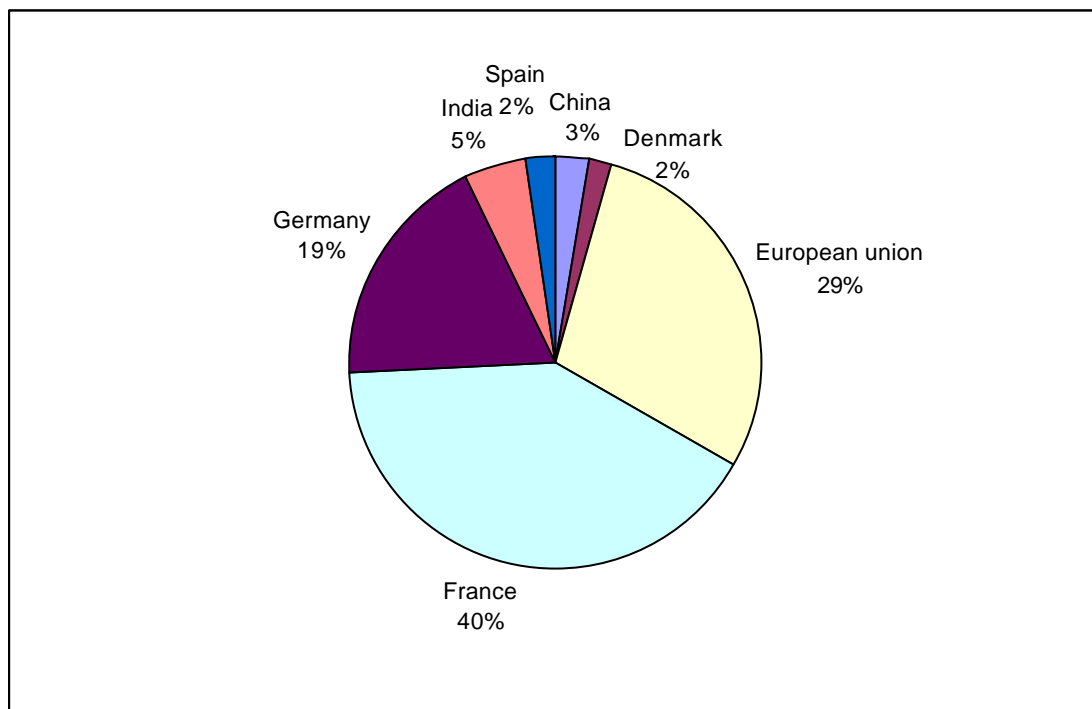


Figure 2 : type of floats managed by Coriolis DAC, 28 October, 2003

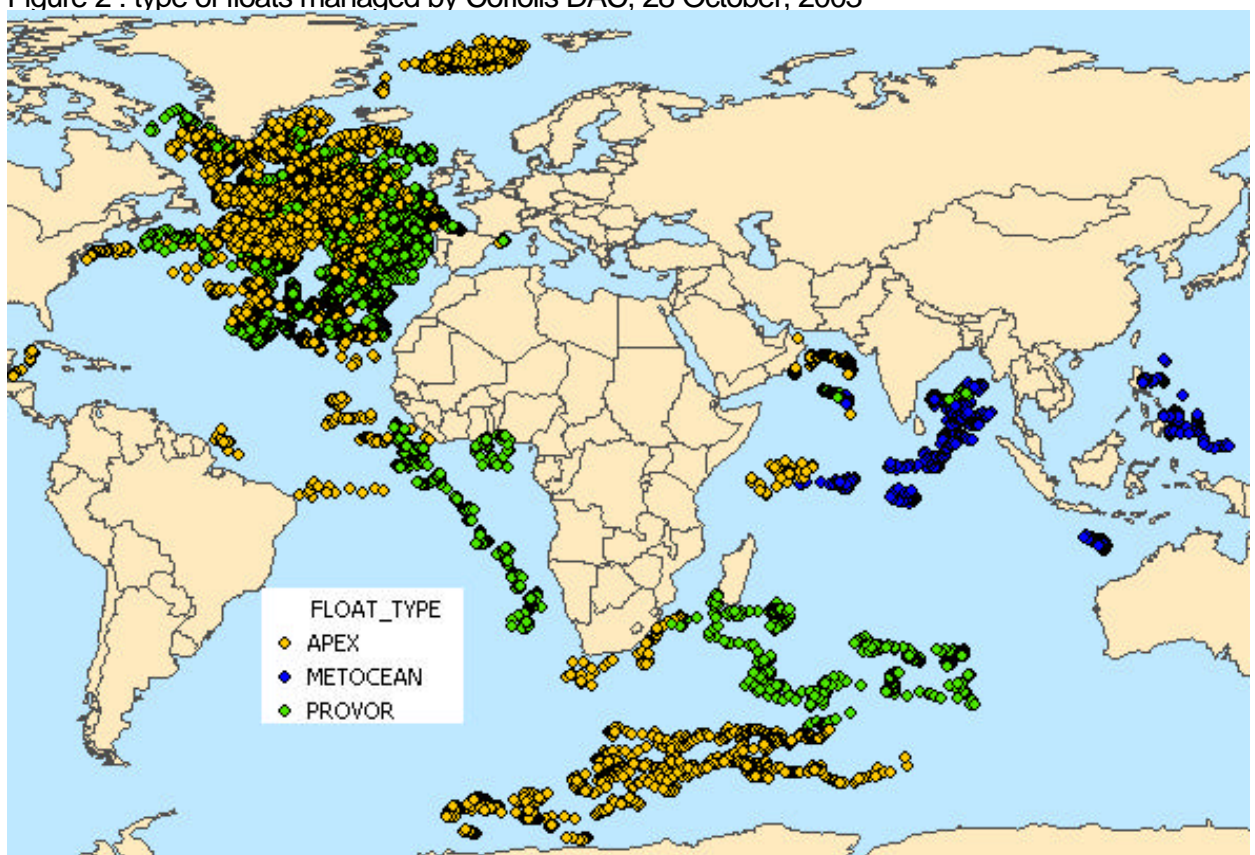
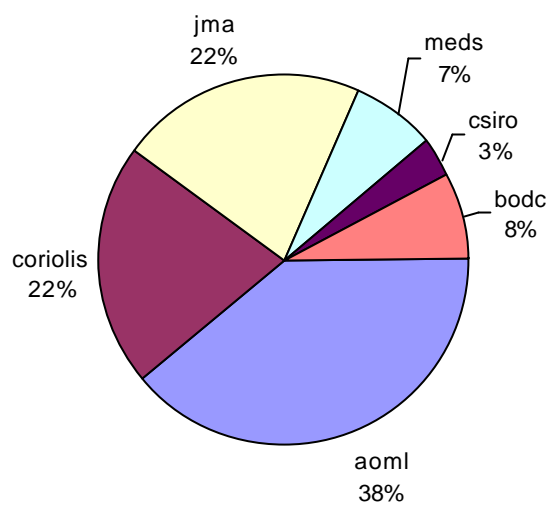
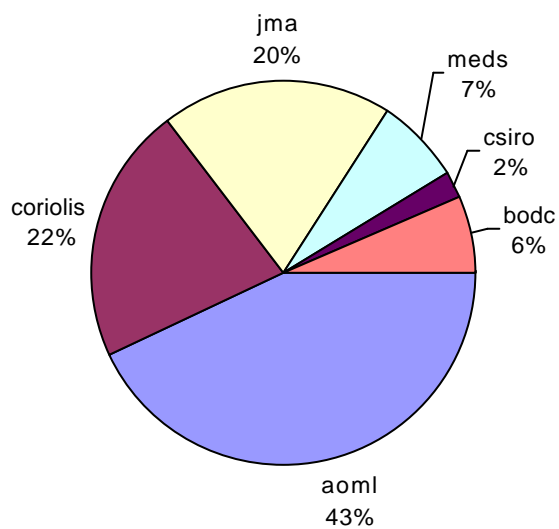


Figure 3 : Argo profiles and platforms available from GDAC



**Argo GDAC Profiles, 27/10/2003**



**Argo GDAC Platforms, 27/10/2003**

Figure 4 : monthly distribution of profiles available on GDAC

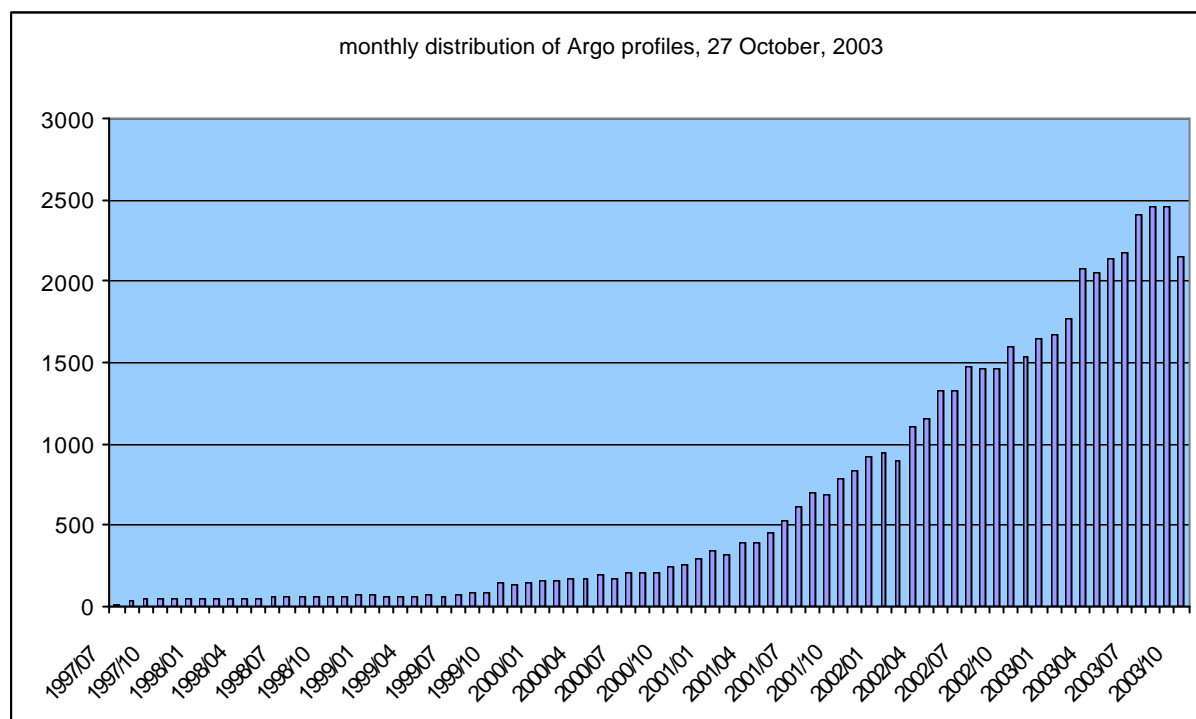


Figure 5 : geographic distribution of profiles available on GDAC, 28 October 2003

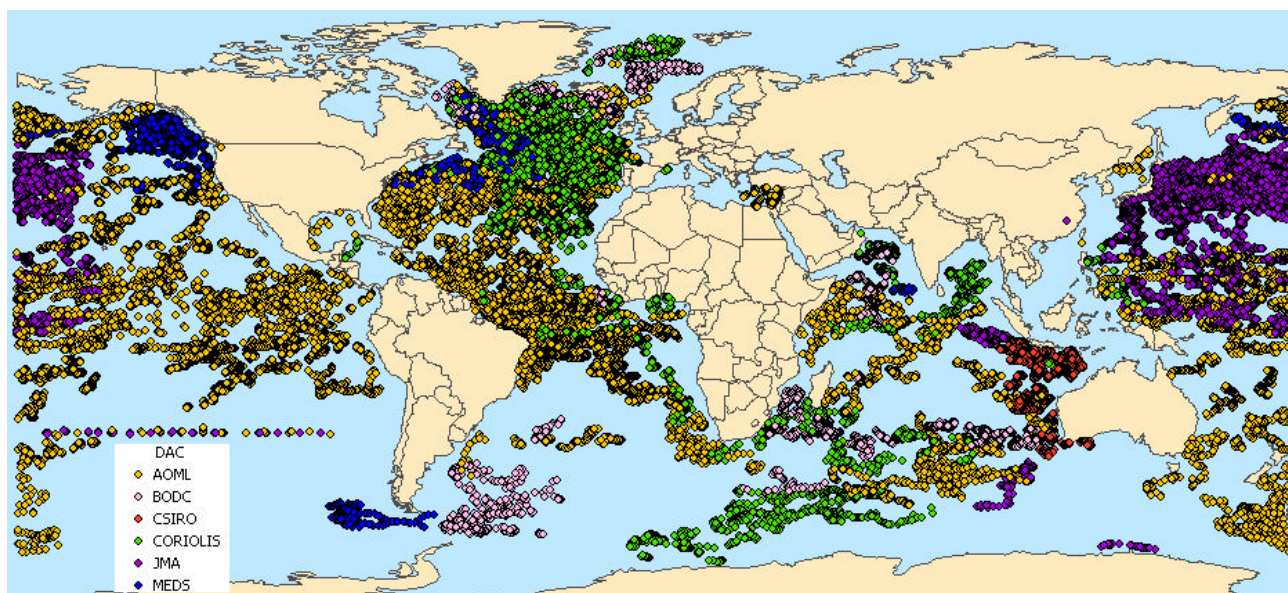




Figure 6 : number of argo data files downloaded from Coriolis GDAC.

